ANNUAL COMPLIANCE REPORT

2015

State Water Resources Control Board Division of Drinking Water

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STATE WATER RESOURCES CONTROL BOARD DRINKING WATER PROGRAM ANNUAL COMPLIANCE REPORT OF PUBLIC WATER SYSTEMS

CALENDAR YEAR 2015

EXECUTIVE SUMMARY

The State of California Drinking Water Program (DWP), including designation by the EPA as the primacy agency, transferred in its entirety from the California Department of Public Health to the State Water Resources Control Board (SWRCB) on July 1, 2014.

Each quarter, the State's DWP submits data to the Safe Drinking Water Information System (SDWIS/FED), which is a database maintained by the U.S. Environmental Protection Agency (USEPA). The data submitted includes: public water system inventory information; incidents of violations for maximum contaminant levels (MCLs), maximum residual disinfectant levels (MRDLs), monitoring and reporting (M/R), treatment techniques (TT); violations concerning public and consumer notification; and information on enforcement activity related to these violations. In addition, SWRCB provides USEPA with this Annual Compliance Report, which includes a portion of the violation data listed above, that USEPA has identified for inclusion in this report.

Violation information included in this Annual Compliance Report is derived from the data available from the DWP's SDWIS/State database and the USEPA's Safe Drinking Water Information System Reporting Services for the Annual Compliance Report for the period of January 1, 2015 through December 31, 2015. Please note that the data tables used in this report are available at the website listed below. These data tables can be used to search for specific water systems or to sort violations by the name of the county.

A copy of this 2015 Annual Compliance Report (and associated data tables) will be available to the public by contacting the SWRCB's Division of Drinking Water at (916) 449-5600, or through the SWRCB website at:

http://www.waterboards.ca.gov/drinking_water/programs/index.shtml.

The 2015 Annual Compliance Report discusses violations by categories such as: contaminant category, by individual contaminant, and by the violations in each county. The table below lists the number of violations and estimated populations impacted by the categories of MCL or treatment technique violations plus specific monitoring and reporting violations for 2015.

The violation data is used by the DWP in establishing priorities and focusing resources to resolve compliance problems. The data for this report and appendices is available at:

http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Publications.shtml

Comparison of Data between 2014 and 2015

| | Year 2014 | | Year 2015 | | Change between 2014 and 2015 | |
|---|------------------------|---------------------|------------------------|---------------------|------------------------------|------------------------|
| MCL and TT Violation Category | MCL & TT Violations | Impacted Population | MCL & TT Violations | Impacted Population | MCL &TT Violations | Impacted Population |
| Inorganic Contaminants | 798 | 206,654 | 232 | 129,545 | -566 | -77,109 |
| Synthetic Organic contaminants | 11 | 15,602 | 4 | 14,163 | -7 | -1,439 |
| Volatile Organic Contaminants | 3 | 250 | 0 | 0 | -3 | -250 |
| Radionuclide Contaminants | 73 | 23,865 | 26 | 52,411 | -47 | +28,546 |
| Total Coliform Rule (acute and non- acute) | 617 | 620,245 | 419 | 443,064 | -198 | -177,181 |
| Disinfectants/ Disinfection Byproducts Rule | 164 | 214,665 | 74 | 381,063 | -90 | +166,398 |
| Surface Water Treatment Rules | 86 | 20,766 | 42 | 558,159 | -44 | +537,393 |
| Groundwater Treatment Rules | 2 | 27,360 | 1 | 420 | -1 | -26,940 |
| Lead and Copper Rule | 1 | 3,441 | 11 | 10,494 | +10 | +7,053 |
| Totals | 1,755 | 1,132,848 | 809 | 1,589,319 | -946 | +456,471 |
| Part B: Violations rela | ated to keep | oing the pub | olic informe | d | | |
| | Year | 2014 | Year | 2015 | | between nd 2015 |
| PN Violation Category | PN Violations | Number of PWS | PN Violations | Number of PWS | PN Violations | Number of PWS |
| Public Notification Rule | 3 | 2 | 52 | 42 | +49 | +40 |
| Consumer Confidence Notification | 80 | 69 | 337 | 258 | +257 | +188 |
| Exemptions and Variances | 0 | 0 | N/A | N/A | N/A | N/A |
| Totals | 83 | 71 | 389 | 300 | 306 | 228 |

SECTION 1: INTRODUCTION

This report provides information from the State of California's Water Resources Control Board (SWRCB) records on public drinking water system violation data for calendar year 2015. This report is provided to the U.S. Environmental Protection Agency (EPA) and to the public as required by the Federal Safe Drinking Water Act, sections 1414(c)(3)(A)(i) – (ii).

The Federal Safe Drinking Water Act (SDWA) requires states to report violations of primary drinking water standards via the electronic data system of record as well as this report for each calendar year. This report does not contain information on domestic water supplies such as private wells, which do not meet the definition of a public water system.

The State's Drinking Water Program (DWP), including designation by the EPA as the primacy agency, transferred in its entirety from the California Department of Public Health to the SWRCB on July 1, 2014. Since this transition, the DWP has switched from the PICME Data System to the State Drinking Water Information System (SDWIS) for tracking of violation and compliance data.

THE DRINKING WATER PROGRAM OVERVIEW

Public water systems are regulated and monitored by the Division of Drinking Water of the SWRCB, commonly referred to as the Drinking Water Program (DWP). Currently, the DWP, including county-based Local Primacy Agencies (LPAs), regulate a total of 7,586 public water systems (PWS) in California. A PWS is defined as a water system serving 15 or more service connections, or 25 or more users for 60-plus days per year. PWSs are divided into three principle classifications: community water systems (CWS), non-transient non-community water systems (NTNC), and transient, non-community water systems (TNC). Wholesale water systems are also regulated as public water systems although they may not serve water directly to individual customers or service connections.

CWSs serve cities, towns and other residential areas used by year-round users. Examples include water districts, cities, mutual water companies and even some small housing complexes served by their own well. NTNC systems are systems that provide water to the same non-residential users daily for at least 180 days out of the year but are not classified as CWS. Examples include schools, places of employment and institutions, etc. TNC systems are systems that provide water for a population that is transient. Examples include campgrounds, parks, ski resorts, roadside rest areas, gas stations and motels. As extracted from the SDWIS/State, Table 1 provides a count of the number and type of PWSs in California:

Table 1: Number of Water Systems by System Classification (As of April 2016)

| Type of Water System | Count |
|-------------------------------------|-------|
| Community Water Systems (CWS) | 2902 |
| Non-Transient, Non-Community (NTNC) | 1470 |
| Transient, Non-Community (TNC) | 3174 |

| Type of Water System | Count |
|---|-------|
| Wholesale Water Systems | 40 |
| Total number of water systems statewide | 7586 |

Table 2: Number of Community Water Systems Statewide (As of April 2016)

| Number of Service Connections | Typical Population Served | Number of Systems | Sum of Actual Population Served |
|----------------------------------|------------------------------|----------------------|---------------------------------------|
| 3,300 or more | 10,000 or more | 405 | 35,350,616 |
| 1,000 to 3,299 | 3,000 to 10,000 | 271 | 1,756,737 |
| 500 to 999 | 1,500 to 3,000 | 148 | 467,148 |
| 100 to 499 | 300 to 1,500 | 592 | 492,143 |
| 25 to 99 | 75 to 300 | 962 | 165,967 |
| Fewer than 25 | 25 to 75 | 524 | 40540 |
| Total number o | 2902 | 38,273,151 | |

Under the 1974 SDWA and subsequent reauthorizations in 1986 and 1996, USEPA sets national limits on contaminant levels in drinking water for human consumption to protect the health of users. These limits are known as maximum contaminant levels (MCL) and maximum residual disinfectant levels (MRDL). For some regulations, treatment techniques (TT) have been established in lieu of an MCL as a means to control levels of specific contaminants in drinking water. Water systems are also regulated as to the frequency of monitoring and the reporting (M/R) of water quality or rule compliance. Systems can incur a violation for failure to collect required samples during a monitoring period (monitoring violations) or failure to report sample results or rule compliance in the required manner (reporting violations).

Water systems must notify their consumers when they have violated drinking water standards. This notification is required to include:

- A clear and understandable explanation of the nature of the violation
- The potential adverse health effects from the violation
- The steps that the water system is undertaking to correct the violation;
- The possible use of alternative water supplies available during the violation.

USEPA has designated the SWRCB as the primacy agency responsible for the administration and enforcement of the SDWA requirements in California. SWRCB has adopted mandated statutes and regulations to implement the requirements of the SDWA.

SWRCB has regulatory responsibility over water systems including tasks such as issuance of operating permits, conducting inspections, monitoring for compliance with regulations, and taking enforcement actions to compel compliance when violations are identified.

In 30 counties, the SWRCB has delegated the drinking water program regulatory authority (known as 'Primacy') for most of the small public water systems serving fewer than 200 service connections. The delegated counties (Local Primacy Agencies or LPAs) are responsible for regulatory oversight of approximately 3,600 small public water systems statewide. The SWRCB retains direct regulatory authority over water systems serving 200 or more service connections and any small public water system not delegated to an LPA.

Each quarter, SWRCB submits data to the Safe Drinking Water Information System (SDWIS/FED), a database maintained by USEPA. The data submitted include:

- Water system inventory information;
- MCL, MRDL, M/R, and TT violations for regulated contaminants;
- Violations concerning public and consumer notification;
- Enforcement actions associated to these violations.
- 90th% data for the Lead and Copper Rule

There are three basic types of violations that a water system can incur:

- Violation of a Maximum Contaminant Level: Primary drinking water standards
 have been adopted by SWRCB for contaminants that may be found in drinking water
 supplies in California and are necessary to protect the public from acute and chronic
 health risks associated with consuming water. These limits are known as MCLs.
- Violation of a treatment technique: Treatment techniques and performance standards have been adopted as a means to provide safe drinking water in instances where adoption of a specific MCL may be impractical or impossible. Treatment technique violations are a proven means to reduce the risk from various contaminants by closely controlling the treatment processes
- Violation of a Monitoring and Reporting Requirement: A water system is required to monitor and verify that the levels of contaminants present in the drinking water supplies do not exceed an MCL. A monitoring violation occurs when a water system fails to have its water tested as required within a compliance period. A reporting violation occurs when a water system fails to report test results in a timely fashion to the regulatory agency. A water system that fails to perform required monitoring for a group of chemicals (such as synthetic organic chemicals or volatile organic chemicals) would incur a violation of Monitoring and Reporting Requirements for each of the individual chemicals within this group.

SECTION 2: VIOLATION CATEGORY SUMMARY

The 2015 Annual Compliance Report lists violations by the following categories:

- 1. Inorganic contaminants
- 2. Synthetic organic contaminants
- 3. Volatile organic contaminants
- 4. Radionuclide contaminants
- 5. Total coliform rule
- 6. Disinfectant and disinfection byproduct rule
- 7. Surface water treatment rule
- 8. Groundwater treatment rule
- 9. Lead and copper rule
- 10. Public notification requirements
- 11. Consumer confidence report notification requirements
- 12. Variances and exemptions

SECTION 3: REVIEW OF 2015 VIOLATION DATA

Summary Data Tables for Calendar Years 2013, 2014, and 2015

There are four tables in the report that summarize the violation data for the 2015 calendar year as well as for calendar years 2013 and 2014. These tables include:

- **Table 3** Number of violations by category for maximum contaminant levels/treatment techniques and monitoring/reporting requirements
- **Table 4** Number and population of water systems with violations of maximum contaminant levels, maximum residual disinfectant levels and treatment techniques
- **Table 5** Number and population of water systems with violations of monitoring and reporting requirements
- **Table 6** Total Coliform Rule MCL Violations for Calendar Years 2013, 2014 and 2015 **Violation Information in the Appendix**

Appendix A provides definitions of terminology used in this report

Appendix B summarizes violations by grouping by contaminant category

Appendix C summarizes violations by individual contaminant. It provides water system name, population and number of violations by contaminant. It sums up the population affected by each violation type.

Appendix D lists individual violations by county sorted by water system number. The table also sums up the population affected by these violations in each county.

Appendices E & F list systems with violations of priority contaminants (arsenic & nitrate/nitrite) where SWRCB is directing enhanced compliance actions, technical assistance, and SWRCB funding for infrastructure improvements.

Table 3: Number of Violations by Category for Maximum Contaminant Levels / Treatment Techniques (MCL/TT) and/or Monitoring / Reporting Requirements (M/R)

| N. | 0-1 | 2013 | | 201 | 2014 | | 15 |
|----|--|--------|-----|--------|------|--------|-----|
| No | Category | MCL/TT | M/R | MCL/TT | M/R | MCL/TT | M/R |
| 1 | Inorganic contaminants | 965 | 256 | 798 | 172 | 759 | 105 |
| 2 | Synthetic organic contaminants | 9 | 1 | 11 | 0 | 4 | 0 |
| 3 | Volatile organic contaminants | 2 | 5 | 3 | 2 | 0 | 0 |
| 4 | Radionuclide contaminants | 71 | 3 | 73 | 7 | 61 | 15 |
| 5 | Total coliform rule (TCR) | 495 | 634 | 617 | 710 | 589 | 614 |
| 6 | Disinfectant and disinfection byproducts rule (DBPR) | 216 | 39 | 164 | 47 | 182 | 25 |
| 7 | Surface water treatment rules (SWTR, IESWTR, LT2SWTR) | 143 | 5 | 86 | 4 | 126 | 1 |
| 8 | Groundwater treatment rule | 0 | 0 | 2 | 25 | 2 | 35 |
| 9 | Lead and copper rule (LCR) | 5 | 55 | 1 | 93 | 12 | 561 |
| 10 | Public notification requirements | N/A | 26 | N/A | 3 | N/A | 52 |
| 11 | Consumer confidence report notification requirements | N/A | 97 | N/A | 80 | N/A | 337 |
| 12 | Variances and exemptions | N/A | 0 | N/A | 0 | N/A | N/A |

Table 4: Number and Population of Water Systems with Violations of Maximum Contaminant Level (MCL), Maximum Residual Disinfection Level (MRDL), and/or Treatment Technique (TT)

| | | 201 | 3 | 20 ⁻ | 2014 | | 015 |
|----|--|----------------------------|---------|----------------------------|---------|----------------------------|---------|
| No | Category | No. of Water Systems | Pop. | No. of Water Systems | Pop. | No. of Water Systems | Pop. |
| 1 | Inorganic contaminants | 298 | 443,777 | 296 | 206,654 | 12 | 20,013 |
| 2 | Synthetic organic contaminants | 3 | 12,913 | 6 | 15,602 | 4 | 14,163 |
| 3 | Volatile organic contaminants | 2 | 475 | 2 | 250 | 0 | 0 |
| 4 | Radionuclide contaminants | 22 | 21,357 | 28 | 23,865 | 26 | 52,411 |
| 5 | Total coliform rule (TCR) | 370 | 301,387 | 442 | 620,245 | 419 | 443,064 |
| 6 | Disinfectant and disinfection byproducts rule (DBPR), MRDL | 73 | 411,026 | 62 | 214,665 | 74 | 381,063 |
| 7 | Surface water treatment rules (SWTR, IESWTR, LT2SWTR) | 31 | 18,886 | 31 | 20,766 | 42 | 558,159 |
| 8 | Groundwater treatment rule | 0 | 0 | 2 | 27,360 | 1 | 420 |
| 9 | Lead and copper rule (LCR) | 5 | 4,000 | 1 | 3,441 | 11 | 10,494 |

Table 5: Number and Population of Water Systems with Violations of Monitoring and Reporting Requirements (M/R)

| | | 2013 | | 2014 | | 2015 | |
|----|---|----------------------------|---------|----------------------------|-----------|----------------------------|-----------|
| No | Category | No. of Water Systems | Pop. | No. of Water Systems | Pop. | No. of Water Systems | Pop. |
| 1 | Inorganic contaminants | 209 | 313,904 | 153 | 131,814 | 74 | 93,551 |
| 2 | Synthetic organic contaminants | 1 | 36 | 0 | 0 | 0 | 0 |
| 3 | Volatile organic contaminants | 3 | 400 | 1 | 225 | 0 | 0 |
| 4 | Radionuclide contaminants | 3 | 600 | 3 | 616 | 9 | 1,153 |
| 5 | Total coliform rule (TCR) | 471 | 443,241 | 508 | 1,169,357 | 441 | 265,737 |
| 6 | Disinfectant and disinfection byproducts rule (DBPR) | 22 | 703,407 | 23 | 290,764 | 16 | 95,957 |
| 7 | Surface water treatment rules (SWTR, IESWTR, LT2ESWTR) | 5 | 169,616 | 2 | 600 | 1 | 500 |
| 8 | Groundwater Treatment Rule | 0 | 0 | 24 | 670,578 | 33 | 1,169,843 |
| 9 | Lead and copper rule (LCR) | 51 | 118,981 | 91 | 139,394 | 11 | 10,719 |
| 10 | Public notification requirement | 22 | 33,661 | 2 | 1,206 | 42 | 60,543 |
| 11 | Consumer confidence report notification requirements | 93 | 74,426 | 69 | 75,935 | 258 | 140,167 |
| 12 | Variances and exemptions | 0 | 0 | 0 | 0 | N/A | N/A |

SECTION 4: DISCUSSION OF VIOLATION TYPES AND CONTAMINANTS

This section contains summary information on violations entered into SWRCB's data system. More specific information on the water provided by a drinking water supplier can be obtained by requesting a copy of the Consumer Confidence Report (CCR) that all CWS and NTNC water systems are required to issue to their customers annually. To obtain a copy of a CCR, customers may contact public water system serving the area. Many public water systems also post their CCR to the internet. A link to identify contacts for a CWS is located at https://sdwis.waterboards.ca.gov/PDWW/. When a system has violated a standard, the system is required to issue a public notice to their consumers, copies of which should also be available from the public water system upon request.

4.1 Inorganic Contaminants

Water systems are required to meet primary drinking water standards and monitoring and reporting requirements for 18 inorganic contaminants. A total of 759 MCL violations were recorded for the year, as summarized below:

| Contaminant Category | Contaminant | Violation Category | No. of Violations | No. of Water Systems |
|----------------------|-----------------|--------------------|----------------------|-------------------------|
| IOC | Arsenic | MCL | 482 | 142 |
| IOC | Cadmium | MCL | 5 | 2 |
| IOC | Fluoride | MCL | 22 | 8 |
| IOC | Mercury | MCL | 4 | 1 |
| IOC | Nitrate | MCL | 196 | 82 |
| IOC | Nitrate-Nitrite | MCL | 49 | 35 |
| IOC | Selenium | MCL | 1 | 1 |

Arsenic accounted for 482 MCL violations for inorganic chemicals. The major sources of arsenic in drinking water are from erosion of natural deposits. Other sources of arsenic may include runoff from orchards, and wastes from glass and electronics production. Some people who drink water containing arsenic in excess of the MCL for many years could experience skin damage or problems with their circulatory system, and may have an increased risk for cancer. In California, the drinking water standard for arsenic was lowered to 0.010 mg/l as of November 28, 2008.

Nitrate (including Nitrate + Nitrite combined) accounted for 245 of the total MCL violations for inorganic chemicals. Nitrate and nitrite are commonly found in fertilizers used in farming and gardening. Nitrates are found in sewage and wastes from humans, animals, and some industrial processes. Contamination from nitrates and nitrites is usually the result of these activities. There are few mineral deposits containing naturally occurring nitrate or nitrite in California.

Excessive levels of nitrate and nitrite in drinking water can cause serious illness and, in rare cases, even death in infants less than six months of age. This is a result of

interference with the oxygen carrying capacity of the infant's blood. This is an acute disease in that symptoms can develop rapidly. As infants mature, changes in the digestive system naturally occur that prevent the conversion of nitrates to nitrites.

The health of infants can deteriorate over a period of days, if exposed to high levels of nitrates through drinking water or water used for infant formula. Symptoms of nitrate exposure in infants include shortness of breath and a marked blueness of the skin. High nitrate levels may also affect the oxygen-carrying ability of the blood of pregnant women. Expert medical advice and an alternate source of drinking water are recommended if one suspects nitrate levels may be a cause for concern. Local and state health authorities are the best sources for information concerning alternate sources of drinking water for infants. SWRCB has set the drinking water standard at 10 milligrams per liter (mg/l) nitrate (measured as N) and 1 mg/l for nitrite (measured as N) to protect against the risk of these adverse effects. Drinking water that meets the SWRCB standards is associated with little to no risk for nitrite/nitrate toxicity and is considered safe with respect to compounds.

Fluoride accounted for 22 of the total MCL violations for inorganic chemicals. Major sources of naturally occurring fluoride in drinking water are from erosion of natural deposits. Sources of fluoride associated with human activities include discharges from fertilizer and aluminum processing facilities. Some people who drink water containing fluoride in excess of the Federal MCL of 4 mg/l over many years may get bone disease, including pain and tenderness of the bones. To protect people from the adverse effects of dental fluorosis (a brownish staining of the teeth), the state has set the MCL at 2 mg/l. Because fluoride also has a beneficial effect in preventing dental caries (tooth decay), some communities may add fluoride to their drinking water (fluoridation). Where fluoridation is practiced, levels are maintained at the optimal level for reduction of dental caries which is well below the state MCL.

Mercury accounted for four violations of the MCL for inorganic chemicals. In the U.S., mercury compounds are manufactured in small amounts for specialty uses, such as chemical and pharmaceutical applications. Mercury exposure at high levels can harm the brain, heart, kidneys, lungs, and immune system of people of all ages. Research shows that most people's fish consumption does not cause a health concern. However, it has been demonstrated that high levels of methyl-mercury in the bloodstream of unborn babies and young children may harm the developing nervous system, making the child less able to think and learn.

Cadmium accounted for 5 of the total MCL violations for inorganic chemicals. Some people who drink water containing cadmium in excess of the MCL over many years may experience kidney damage.

Selenium accounted for 1 violation. Selenium is an essential nutrient. However, some people who drink water containing selenium in excess of the MCL over many years may experience hair or fingernail losses, numbness in fingers or toes, or circulation system problems.

4.2 Synthetic Organic Contaminants

Water systems are required to meet primary drinking water standards and monitoring and reporting requirements for 33 synthetic organic contaminants (SOC). There were a total of four (4) SOC MCL violations involving four different water systems. All SOC violations were for 1,2-dibromo-3-chloropropane exceedances.

| Contaminant | Violation Category | No. of Violations | No. of Water Systems |
|-----------------------------|--------------------|----------------------|-------------------------|
| 1,2-Dibromo-3-chloropropane | MCL, Average | 4 | 4 |

1,2-Dibromo-3-chloropropane (DBCP) accounted for 4 MCL violations for SOCs. DBCP was banned from use in 1978, but is still found in some groundwater sources as a result of prior use of DBCP use as a soil fumigant in soybeans, cotton, and orchard crops. Some people who drink water containing DBCP in excess of the MCL for many years could experience reproductive difficulties and may have an increased cancer risk. SWRCB has set the drinking water standard for DBCP at 0.0002 milligrams per liter (mg/l) to reduce these risks.

4.3 Volatile Organic Contaminants

Water systems are required to meet primary drinking water standards and monitoring and reporting requirements for 27 volatile organic contaminants (VOC). There were no VOC violations in 2015

4.4 Radionuclide Contaminants

Water systems are required to meet primary drinking water standards and monitoring and reporting requirements for six radionuclide contaminants. 61 MCL violations involving 26 public water systems were incurred for radionuclide contaminants, all of which were for uranium.

| Contaminant Category | Contaminant | Violation Category | No. of Violations | No. of Water Systems |
|-------------------------|------------------|--------------------|----------------------|----------------------------|
| Radionuclide | Combined Uranium | MCL | 61 | 26 |

The major source of uranium in drinking water is from erosion of natural deposits. Some people who drink water containing uranium in excess of the MCL over many years may have kidney problems or an increased risk of getting cancer. The SWRCB has set the drinking water standard for uranium at 20 pCi/L to protect against the risk of these adverse health effects. USEPA has set a Federal water standard for uranium at 30 pCi/L.

4.5 Total Coliform Rule (TCR)

The total coliform rule violations identify the presence of coliform bacteria contamination at a level above the MCL in the drinking water distribution systems or a failure of a water system to conduct the required water quality monitoring for coliform bacteria in the water distribution systems. Table 6 summarizes the TCR MCL violations for calendar years 2013, 2014, and 2015.

Table 6. TCR MCL violations for calendar years 2013-2015

| Type of MCL Violations | 2013 | 2014 | 2015 |
|-----------------------------------|------|------|------|
| Acute ¹ MCL violations | 33 | 44 | 44 |
| Non-acute MCL violations | 462 | 573 | 545 |

Under the Total Coliform Rule (TCR), results are reported on a presence/absence basis. CWS are required to routinely sample between one sample per month and 120 samples per week, depending on the size of the system. NTNC and TNC systems are generally on a monthly or quarterly sampling frequency. A public water system is in violation of the total coliform MCL when any of the following occurs:

- For a public water system which collects at least 40 samples per month, more than 5.0 percent of the samples collected during any month are total coliformpositive; or
- For a public water system which collects fewer than 40 samples per month, more than one sample collected during any month is total coliform-positive; or
- Any repeat sample is fecal coliform-positive or E. coli-positive; or
- Any repeat sample following a fecal coliform-positive or E. coli-positive routine sample is total coliform-positive.

The presence of fecal coliforms and *E. coli* are considered serious because they usually are associated with direct contamination by sewage or animal wastes. The presence of these bacteria in drinking water indicates that the water may be contaminated with organisms that can cause disease. Disease symptoms may include diarrhea, cramps, nausea, and possibly jaundice, and associated headaches and fatigue. Because many of these symptoms can be mild or are flu-like, you should consult with your physician to determine if they are the result of a water-borne disease or other more common diseases (e.g. cold, flu or other bacterial or viral illnesses that are not water-borne).

1

¹ Under the Total Coliform Rule, an MCL is considered to be acute when sample results indicate the presence of fecal coliform organism, i.e.: since fecal coliforms originate in the gut of most warm-blooded animals, the presence of fecal coliforms is considered to be an indicator of possible sewage contamination; which requires an escalated response to protect public health.

4.6 Disinfectants and Disinfection Byproducts Rule (DBPR)

The following is the summary of violations for 2015:

| Contaminant | nt Violation Category | | No. of Water Systems |
|-------------------------------|---|-----|-------------------------|
| Total Haloacetic Acids (HAA5) | MCL | 57 | 24 |
| Total Trihalomethanes | MCL | 125 | 52 |
| Total Organic Carbon | Treatment Technique Precursor Removal | 4 | 3 |
| Chlorine | Non-Acute MRDL | 0 | 0 |
| DBP Stage 1 | Treatment Technique No Certified Operator | 8 | 8 |

SWRCB has set primary drinking water standards and monitoring requirements for three disinfectants, and four disinfection byproduct contaminants which can form when chemical disinfectants are added to drinking water. To protect users from the acute health risk from microbial pathogens, SWRCB often requires public water systems to install disinfection facilities. However, disinfectants can also react with naturally-occurring organic matter present in water, or other chemicals, to form disinfection byproducts (DBPs).

SWRCB has determined that a number of DBPs are a health concern with long-term exposure and has adopted MCLs for trihalomethanes (THMs), haloacetic acids (HAAs), chlorite and bromate. THMs and HAAs have been shown to cause cancer in laboratory animals and have been shown to affect the liver and the nervous system, and cause reproductive or developmental effects in laboratory animals. Exposure to certain DBPs may produce similar effects in people. Chlorite, in excess of the MCL, can affect the nervous system in some infants and young children. Similar effects may occur in fetuses of pregnant women who drink water containing chlorite in excess of the MCL. In addition, some people exposed to chlorite may experience anemia.

Under the DBPR, enforceable standards, called Maximum Residual Disinfectant Levels (MRDL), have also been set for three common disinfectants. These include standards for chlorine, chloramine and chlorine dioxide disinfectant residuals in the distributions system. There was no MRDL violation in 2015.

Total organic carbon (TOC) is a precursor to DBP formation. Adding additional amounts of coagulant or lime to coagulation or softening treatment trains, respectively, can increase the amount of TOC removed and thereby lower DBP levels in finished water. The rule includes this treatment technique for systems using surface water or groundwater under the direct influence of surface water that use conventional treatment. The PWS subject to the rule are required to remove a percentage of TOC from the raw water. There were four (4) violations related to total organic carbon in 2015.

As a requirement of the DBPR, California is required to maintain operator certification program for systems using a surface water source or a groundwater source under the direct influence of surface water. There were eight violations related to operator certification rule in 2015.

4.7 Surface Water Treatment Rules

The surface water treatment rules include the Surface Water Treatment Rule (SWTR), Interim Enhanced Surface Water Treatment Rule (IESWTR), Long-term 1 Surface Water Treatment Rule, Long-term 2 Surface Water Treatment Rule (LT2ESWTR), and Filter Backwash Rule. These rules establish monitoring and reporting requirements, treatment techniques, performance standards, and turbidity standards to be met by water systems using surface water as a drinking water source. The following is the summary of these violations:

| Rule Violated | VIOLATION CATOMORY | | No. of Water Systems |
|------------------|--|----|----------------------------|
| SWTR | Failure to Filter (SWTR) | 86 | 23 |
| SWTR | Treatment Technique (SWTR and GWR) | 38 | 21 |
| LT2ESWTR | Treatment Technique (SWTR and GWR) | 2 | 2 |
| IESWTR | Monthly Turbidity Exceedance (Enhanced SWTR) | 1 | 1 |
| IESWTR | Monitoring, Turbidity (Enhanced SWTR) | 0 | 0 |
| SWTR | Monitoring of Treatment (SWTR-filter/GWR) | 1 | 1 |

Treatment techniques and performance standards are used to establish water quality objectives instead of the MCLs for microbiological contaminants that may be found in surface waters, including *Giardia lamblia, Cryptosporidium parvum*, *Legionella*, heterotrophic plate count bacteria, and viruses. Water systems that use surface water are required to provide multi-barrier treatment to protect against adverse health effects from microbiological contaminants. All multi-barrier treatment systems must include the use of a SWRCB approved filtration technology as a first barrier, and a reliable disinfection system, as a second barrier. Some systems can avoid filtration by meeting special requirements including rigorous standards on their source waters. However, these systems must still disinfect their water.

There were a total of 42 systems that had violations of the surface water treatment rule performance or treatment technique requirements. There were 86 violations of filtration requirements by 23 water systems. There were 38 violations of surface water treatment technique violations from a total of 21 water systems.

There was one (1) violation of the Interim Enhanced SWTR. The Interim Enhanced SWTR imposed a stricter turbidity monitoring and performance requirement and

improves control of microbial contaminants, particularly Cryptosporidium, in systems using surface water that serve 10,000 or more persons.

There were no violations of the filter backwash recycling rule. The recycling of filter backwash water for reprocessing at the headwork's of the plant is a practice for water conservation. The filter backwash rule established requirements governing the way certain backwash streams are handled at water systems' filtration plants and established reporting and recordkeeping requirements for filter back-wash recycling practices to allow better evaluations and impacts of recycling practices on overall treatment plant performance.

4.8 Groundwater Rule

Groundwater Rule (GWR) establishes a risk-targeted approach to identify groundwater systems susceptible to fecal contamination and requires corrective action to correct significant deficiencies and source water fecal contamination in all public groundwater systems. The GWR applies to all PWS that use groundwater, including consecutive systems.

The purpose of the rule is to reduce disease incidence associated with disease-causing microorganisms in drinking water. The rule establishes a risk-based approach to target ground water systems that are vulnerable to fecal contamination. Ground water systems that are identified as being at risk of fecal contamination must take corrective action to reduce potential illness from exposure to microbial pathogens. The rule applies to all systems that use ground water as a source of drinking water. Special monitoring of the source water must be completed in response to total coliform contamination in the distribution system. A summary of violations for 2015 is below:

| Rule Violated | Violation Category | No. of Violations | No. of Water Systems |
|-----------------------|---|----------------------|----------------------------|
| Indicator Organism | Monitoring, Source Water | 32 | 30 |
| Groundwater Rule | Failure to Notify Other PWS | 2 | 2 |
| Groundwater Rule | Monitoring of Treatment (SWTR-Unfilt/GWR) | 2 | 2 |
| Groundwater Rule | Treatment Technique (SWTR and GWR) | 2 | 1 |

4.9 Lead and Copper Rule

Under the lead and copper rule, public water systems collect first draw samples at representative customer taps and test them for lead and copper. Public water systems are required to meet specific action levels for these contaminants, based on sample results, and take specified steps to lower exposure if an action level is exceeded. The following is the summary of violations for 2015:

| Contaminant Category | Contaminant | Violation Category | No. of Violations | No. of Water Systems |
|-------------------------|-------------------------|---|----------------------|----------------------------|
| Lead and Copper Rule | Lead | Maximum Permissible Level Non-Compliance | 5 | 5 |
| Lead and Copper Rule | Lead and Copper Rule | Follow-up Or Routine LCR Tap Monitoring | 358 | 319 |
| Lead and Copper Rule | Lead and Copper Rule | Initial Sampling for Lead and Copper | 194 | 173 |
| Lead and Copper Rule | Lead and Copper Rule | Initial, Follow-up, or Routine Source Water Monitoring | 8 | 8 |

The major sources of copper in drinking water are from internal corrosion of household plumbing systems, erosion of natural deposits, and leaching from wood preservatives. The major source of lead in drinking water is from internal corrosion of certain household plumbing systems or components. Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time may experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years may suffer liver or kidney damage. People with Wilson's disease should consult their personal doctor.

Lead can cause a variety of adverse health effects when people are exposed to it at levels above the action level for relatively short periods of time. These effects may include interference with red blood cell chemistry, delays in normal physical and mental development in babies and young children, slight deficits in the attention span, hearing, and learning abilities of children, and slight increases in the blood pressure of some adults. Lead has the potential to cause stroke, kidney disease and cancer based on a lifetime exposure at levels above the action level.

4.10 Public Notification

Water suppliers are required to notify SWRCB regulatory staff and the persons served by the water system whenever any of the following occurs: the water supplied to the consumers exceeds the MCLs for coliform bacteria, inorganic chemicals, turbidity, trihalomethanes, radioactivity, organic chemicals; or the water supplier fails to comply with a prescribed treatment technique established in lieu of an MCL; or the water supplier violates any schedule prescribed pursuant to a variance or exemption. A violation occurs when there is a failure to provide the required report to the public by the

required date. There were fifty two (52) violations for failure to provide the required notice to the public in 2015.

| Rule Violated | VIOLATION ("ATOMOTY | | No. of Water Systems |
|------------------|--|----|----------------------------|
| Public Notice | PN Violation for National Primary Drinking Water Regulations (NPDWRs or primary standards) violation | 52 | 42 |

4.11 Consumer Confidence Report Violations

All CWS and NTNC water systems are required to provide to their customers a report each year of the quality of the water being served by their water system. Each year's consumer confidence report (CCR), also includes information on the source of drinking water, the levels of any detected contaminants, and compliance with drinking water regulations by including a clear and understandable explanation of the nature of the violation, its potential adverse health effects, steps that the water system is undertaking to correct the violation and the possibility of alternative water supplies available during the violation. Systems are considered to be in continuing violation until a CCR is issued or the data for a missed year is included in a subsequent year's CCR.

| Rule Violated | Violation Category | No. of Violations | No. of Water Systems |
|------------------|--------------------------------|----------------------|----------------------------|
| CCR | CCR Complete Failure to Report | 320 | 244 |
| CCR | CCR Inadequate Reporting | 17 | 17 |

4.12 Variances and Exemptions Violations

SWRCB is authorized under the Federal SDWA to issue variances and exemptions from meeting drinking water standards to public water systems under special circumstances. There were no violations associated with variances or exemptions in 2015.

SECTION 5: ENFORCEMENT ACTIVITIES

Enforcement action is an essential element of the SWRCB regulatory program to bring all public water systems into full compliance with drinking water standards and regulations to ensure that the public receives safe drinking water.

SWRCB's enforcement actions against a public water system that violates a primary drinking water standard vary according to the type of contaminant and the health risk. Typically, SWRCB will require a public water system to develop a plan of compliance which may include some of the following actions:

- Provide an alternate source of drinking water.
- Shutdown or abandon the contaminated drinking water source, if this is possible.
- Conduct additional water quality monitoring to identify the cause and extent of the contamination and take appropriate corrective action.
- Install new water treatment facilities or modify the water treatment processes to eliminate the contamination.
- Issue a "Boil Water Notice" or "Do Not Drink Notice", depending on the type of contaminant.

Additional enforcement actions available to SWRCB include revoking or suspending a water system's operating permit, assessing civil penalties up to \$25,000 per day for each day a drinking water standard violation occurs, or placing a water system into receivership. Aggressive enforcement action is a key element of the SWRCB overall regulatory strategy to bring all public water systems into full compliance with drinking water standards and regulations.

SECTION 6: CONCLUSION

Overall, water systems in California have a high rate of compliance with drinking water standards. However, there are many communities that have to deal with serious water quality problems and ongoing violations. The State Water Resources Control Board (SWRCB) is the primacy agency responsible for the administration and enforcement of the SDWA requirements in California. The implementation of the program includes a range of activities and authorities including issuing operating permits, conducting inspections, monitoring for compliance with regulations, and taking enforcement action to compel compliance when violations are identified.

As of July 1, 2014, a copy of each enforcement action issued by SWRCB is available at:

http://www.waterboards.ca.gov/drinking_water/programs/index.shtml

All enforcement actions issued by LPAs are also posted on this page. Enforcement actions are grouped by county.

The following documents provide additional information on the SWRCB's overall drinking water regulatory program:

- The Safe Drinking Water Plan for California which is available at: http://www.waterboards.ca.gov/drinking_water/safedrinkingwaterplan/index.shtml
- The SWRCB is carrying out a Small Water System Program Plan aimed at reducing violations of drinking water standards especially in smaller water systems.
 Information on the SWS Program Plan is available via the Small Water Systems Support page:

http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Smallwatersystems.shtml

A copy of this report will be available to the public by contacting the SWRCB Division of Drinking Water at (916) 449-5600 or via the following page of SWRCB website:

http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Publications.shtml

APPENDIX A: DEFINITIONS

Public Water System (PWS)

A public water system (water system) is defined as a system that provides water via piping or other constructed conveyances for human consumption to at least 15 service connections or serves at least 25 people for at least 60 days each year. There are three types of water systems:

- Community water systems (CWS) is a water system serving facilities such as cities, towns, mobile home parks,
- Non-transient non-community (NTNC) is a water system serving facilities such as schools, factories or other facilities that serve the same group of non-resident users at least 180 days out of the year,
- Transient non-community (TNC) is a water system serving facilities such as restaurants, parks, rest stops, campgrounds and other facilities that serve a transient population for at least 60 days out of the year.

For purposes in this report, the term 'water system' refers to a public water system of any of the three types unless otherwise specified.

Primary Drinking Water Standards

Primary Drinking Water Standards are laws and regulations that apply to public water systems and are intended to:

- Set maximum levels for specific contaminants that in the judgment of the SWRCB may have an adverse effect on the health of persons drinking the water.
- Establish treatment techniques that are adopted by the SWRCB in lieu of a maximum contaminant level.
- Establish monitoring and reporting requirements as specified by the SWRCB that pertain to either maximum contaminant levels, treatment techniques, or other aspects of operating a public water system.

Maximum Contaminant Level (MCL)

Maximum Contaminant Levels are health protective drinking water standards to be met by public water systems. The MCLs take into account not only chemicals' health risks but also factors such as their detectability and treatability, as well as costs of treatment. Health & Safety Code §116365(a) requires SWRCB to establish a contaminant's MCL at a level as close to its PHG as is technologically and economically feasible, placing primary emphasis on the protection of public health

Maximum Residual Disinfectant Level (MRDL)

Limits have been set for residual disinfectant levels in drinking water to reduce the risk of exposure to disinfectants formed, when a water system adds chemical disinfectant for either primary or residual treatment. These limits are known as MRDLs.

□ Treatment Techniques (TT)

For some contaminants, treatment techniques have been established in lieu of an MCL to control unacceptable levels of certain contaminants. For example, treatment techniques have been established for the treatment of surface waters in order to control the levels of viruses, bacteria, and other pathogens. Other treatment technique regulations are intended to establish operating parameters for other types of water treatment, where direct measurement of a contaminant is neither practical, nor cost effective.

Variances and Exemptions

SWRCB is authorized under the Federal SDWA to issue variances and exemptions from meeting drinking water standards to water systems under special circumstances. A variance is allowed in situations where the characteristics of a raw water source make it not feasible or too costly for a water system to meet the MCL with the installation of the best available technology, treatment techniques, or other approved method. The approval of any variance must ensure adequate protection of human health. Additionally, the variance is reviewed by SWRCB not less than every five years to determine whether continuation of the variance is appropriate and necessary.

An exemption from an MCL and/or treatment technique is allowed in situations where a water system is in noncompliance as the result of compelling factors and the exemption will not result in an unreasonable risk to public health. Any water system that receives an exemption must achieve compliance with the MCL or treatment technique as expeditiously as practicable, but not later than three years after the applicable compliance date.

Monitoring and Reporting (M/R)

A water system is required to monitor and verify that the levels of contaminants present in the water do not exceed the MCL. A monitoring violation occurs when a water system fails to have its water tested as required or fails to report test results correctly to the regulatory agency.

Significant Monitoring or Reporting Violations

For this report, significant monitoring or reporting violations are defined as when no samples were taken or no results, were reported.

☐ Significant Public Notification Violations

Unless otherwise directed by SWRCB, water suppliers are required to notify SWRCB and the persons served by the water system whenever any of the following occurs: the water supplied to the consumers exceeds the MCLs for coliform bacteria, inorganic chemicals, turbidity, trihalomethanes, radioactivity, organic chemicals; or the water supplier fails to comply with a prescribed treatment technique established in lieu of an MCL; or the water supplier violates any schedule prescribed pursuant to a variance or exemption. A significant public notification violation occurs when there is a failure to provide the required notification.

Consumer Confidence Report (CCR) Notification

All community water systems and non-transient non-community water systems are required to deliver to their customers an annual CCR, summarizing water quality data collected during the year. The report is to include educational material, provide information on the source water(s), levels of any detected contaminants, and any compliance issues with the drinking water regulations.

Significant Consumer Notification Violations

For this report, a significant consumer notification violation is incurred if a community or non-transient non-community water system completely fails to provide its customers the required annual consumer confidence report.

APPENDIX B: SUMMARY OF VIOLATIONS BY RULE FAMILY

| Rule Family | Contaminant or Rule | Violation Category | No. of Violations | No. of Water Systems |
|----------------------|-----------------------------|---|-------------------|----------------------------|
| Inorganics | Arsenic | Maximum Contaminant Level Violation, Average | 465 | 137 |
| Inorganics | Arsenic | Monitoring, Regular | 15 | 11 |
| Inorganics | Arsenic | Monitoring, Check/Repeat/Confirmation | 2 | 2 |
| CCR | Consumer Confidence Rule | Consumer Confidence Report Complete Failure to Report | 320 | 244 |
| CCR | Consumer Confidence Rule | Consumer Confidence Report Inadequate Reporting | 17 | 17 |
| Ground Water Rule | Ground Water Rule | Failure to Conduct Assessment Monitoring | 1 | 1 |
| Ground Water Rule | Ground Water Rule | Sanitary Survey (TCR) | 1 | 1 |

| Rule Family | Contaminant or Rule | Violation Category | No. of Violations | No. of Water Systems |
|----------------------|--|--|-------------------|----------------------------|
| Ground Water Rule | Ground Water Rule | Monitoring of Treatment (SWTR- Unfilt/GWR) | 2 | 2 |
| Ground Water Rule | Ground Water Rule | Monitoring, Source Water (GWR) | 32 | 30 |
| Ground Water Rule | Ground Water Rule | Treatment Technique (SWTR and GWR) | 2 | 1 |
| Ground Water Rule | Ground Water Rule | Failure to Notify Other PWS | 2 | 2 |
| Inorganics | Inorganic Chemicals | Maximum Contaminant Level Violation, Single Sample | 2 | 2 |
| Inorganics | Inorganic Chemicals | Maximum Contaminant Level Violation, Average | 30 | 10 |
| Inorganics | Inorganic Chemicals | Monitoring, Regular | 3 | 3 |
| Inorganics | Inorganic Chemicals | Monitoring, Check/Repeat/Confirmation | 1 | 1 |
| LCR | Lead and Copper Rule | Initial Tap Sampling for Pb and Cu | 194 | 173 |
| LCR | Lead and Copper Rule | Follow-up Or Routine LCR Tap M/R | 358 | 319 |
| LCR | Lead and Copper Rule | Water Quality Parameter M/R | 1 | 1 |
| LCR | Lead and Copper Rule | Initial, Follow-up, or Routine Source Water M/R | 8 | 8 |
| LCR | Lead and Copper Rule | OCCT/SOWT Treatment Installation/Demonstration | 6 | 5 |
| LCR | Lead and Copper Rule | MPL Non-Compliance | 5 | 5 |
| LCR | Lead and Copper Rule | Public Education | 1 | 1 |
| SWTR | Long Term 1 Enhanced Surface Water Treatment Rule | Record Keeping | 3 | 3 |
| SWTR | Long Term 1 Enhanced Surface Water Treatment Rule | Treatment Tech. No Prior State Approval | 1 | 1 |

| Rule Family | Contaminant or Rule | Violation Category | No. of Violations | No. of Water Systems |
|---------------|--|---|-------------------|----------------------------|
| SWTR | Long Term 1 Enhanced Surface Water Treatment Rule | Monthly Turbidity Exceed (Enhanced SWTR) | 1 | 1 |
| SWTR | Long Term 2 Enhanced Surface Water Treatment Rule | Failure to Filter (SWTR) | 2 | 2 |
| SWTR | Miscellaneous | Notification, Public | 84 | 21 |
| SWTR | Miscellaneous | Variance/Exemption/Other Compliance | 22 | 13 |
| Inorganics | Nitrates | Maximum Contaminant Level Violation, Single Sample | 208 | 76 |
| Inorganics | Nitrates | Maximum Contaminant Level Violation, Average | 37 | 18 |
| Inorganics | Nitrates | Monitoring, Regular | 84 | 62 |
| Inorganics | Nitrates | Notification, State | 2 | 2 |
| Public Notice | Public Notice Rule | Public Notification Violation for NPDWR Violation | 34 | 24 |
| Public Notice | Public Notice Rule | Public Notification Violation without NPDWR Violation | 18 | 18 |
| Radiological | Radionuclides | Maximum Contaminant Level Violation, Average | 61 | 26 |
| Radiological | Radionuclides | Monitoring, Regular | 15 | 9 |
| DBP | Stage 1 Disinfectants and Disinfection Byproducts Rule | Treatment Technique No Certif. Operator | 8 | 8 |
| DBP | Stage 1 Disinfectants and Disinfection Byproducts Rule | Monitoring and Reporting (DBP) | 2 | 2 |
| DPB | Stage 1 Disinfectants and Disinfection Byproducts Rule | Treatment Technique Precursor Removal | 4 | 3 |

| Rule Family | Contaminant or Rule | Violation Category | No. of Violations | No. of Water Systems |
|-------------|--|--|-------------------|----------------------------|
| DBP | Stage 2 Disinfectants and Disinfection Byproducts Rule | Maximum Contaminant Level Violation, Average | 182 | 63 |
| DBP | Stage 2 Disinfectants and Disinfection Byproducts Rule | Monitoring and Reporting (DBP) | 12 | 8 |
| DBP | Stage 2 Disinfectants and Disinfection Byproducts Rule | Monitoring, Routine (IDSE) | 11 | 6 |
| SWTR | Surface Water Treatment Rule | Monitoring of Treatment (SWTR-Filter) | 1 | 1 |
| SWTR | Surface Water Treatment Rule | Treatment Technique (SWTR and GWR) | 38 | 21 |
| SWTR | Surface Water Treatment Rule | Failure to Filter (SWTR) | 84 | 21 |
| soc | Synthetic Organic Chemicals | Maximum Contaminant Level Violation, Average | 4 | 4 |
| TCR | Total Coliform Rule | Notification, State | 1 | 1 |
| TCR | Total Coliform Rule | Maximum Contaminant Level Violation, Acute (TCR) | 44 | 40 |
| TCR | Total Coliform Rule | Maximum Contaminant Level Violation, Monthly (TCR) | 545 | 392 |
| TCR | Total Coliform Rule | Monitoring, Routine Major (TCR) | 441 | 326 |
| TCR | Total Coliform Rule | Monitoring, Routine Minor (TCR) | 86 | 76 |
| TCR | Total Coliform Rule | Monitoring, Repeat Major (TCR) | 45 | 41 |
| TCR | Total Coliform Rule | Monitoring, Repeat Minor (TCR) | 42 | 38 |

APPENDIX C: SUMMARY OF VIOLATIONS BY INDIVIDUAL CONTAMINANT

| Contaminant | Rule Family | Violation Category | No. of Violations | No. of Water Systems |
|-----------------------------------|--|-------------------------------------|----------------------|----------------------------|
| 1,2-DIBROMO-3- CHLOROPROPANE | Synthetic Organic Chemicals | Maximum Contaminant Level Violation | 4 | 4 |
| Arsenic | Inorganic Chemicals | Maximum Contaminant Level Violation | 482 | 142 |
| Arsenic | Inorganic Chemicals | Monitoring and Reporting | 17 | 13 |
| CARBON, TOTAL | Stage 1 Disinfectants and Disinfection Byproducts Rule | Treatment Technique Violation | 4 | 3 |
| Cadmium | Inorganic Chemicals | Maximum Contaminant Level Violation | 5 | 2 |
| Chlorine | Stage 1 Disinfectants and Disinfection Byproducts Rule | Monitoring and Reporting | 2 | 2 |
| Coliform (TCR) | Total Coliform Rules | Monitoring and Reporting | 614 | 441 |
| Coliform (TCR) | Total Coliform Rules | Maximum Contaminant Level Violation | 589 | 419 |
| Coliform (TCR) | Total Coliform Rules | Other Violation | 1 | 1 |
| Combined Uranium | Radionuclides | Maximum Contaminant Level Violation | 61 | 26 |
| Combined Uranium | Radionuclides | Monitoring and Reporting | 1 | 1 |
| Consumer Confidence Rule | Consumer Confidence Rule | Other Violation | 337 | 258 |
| E. COLI | Groundwater Rule | Monitoring and Reporting | 31 | 29 |
| ENTEROCOCCI | Groundwater Rule | Monitoring and Reporting | 2 | 2 |
| Fluoride | Inorganic Chemicals | Monitoring and Reporting | 3 | 3 |
| Fluoride | Inorganic Chemicals | Maximum Contaminant Level Violation | 22 | 8 |
| Gross Alpha, Excl. Radon and U | Radionuclides | Monitoring and Reporting | 14 | 8 |
| Groundwater Rule | Groundwater Rule | Monitoring and Reporting | 2 | 2 |
| Groundwater Rule | Groundwater Rule | Treatment Technique Violation | 2 | 1 |
| Groundwater Rule | Groundwater Rule | Other Violation | 2 | 2 |

| Contaminant | Rule Family | Violation Category | No. of Violations | No. of Water Systems |
|--|--|-------------------------------------|----------------------|----------------------------|
| Interim Enhanced Surfsce Water Treatment Rule | Surface Water Treatment Rules | Treatment Technique Violation | 2 | 2 |
| Interim Enhanced Surfsce Water Treatment Rule | Surface Water Treatment Rules | Other Violation | 3 | 3 |
| Lead | Lead and Copper Rule | Treatment Technique Violation | 5 | 5 |
| Lead and Copper Rule | Lead and Copper Rule | Treatment Technique Violation | 7 | 6 |
| Lead and Copper Rule | Lead and Copper Rule | Monitoring and Reporting | 561 | 477 |
| Long Term 2 Enhanced Surface Water Treatment Rule | Surface Water Treatment Rules | Treatment Technique Violation | 2 | 2 |
| Mercury | Inorganic Chemicals | Maximum Contaminant Level Violation | 4 | 1 |
| Nitrate | Inorganic Chemicals | Other Violation | 2 | 2 |
| Nitrate | Inorganic Chemicals | Maximum Contaminant Level Violation | 196 | 82 |
| Nitrate | Inorganic Chemicals | Monitoring and Reporting | 41 | 24 |
| Nitrate-Nitrite | Inorganic Chemicals | Maximum Contaminant Level Violation | 49 | 35 |
| Nitrate-Nitrite | Inorganic Chemicals | Monitoring and Reporting | 39 | 37 |
| Nitrite | Inorganic Chemicals | Monitoring and Reporting | 4 | 4 |
| Public Notice | Public Notice Rule | Other Violation | 52 | 42 |
| Selenium | Inorganic Chemicals | Monitoring and Reporting | 1 | 1 |
| Selenium | Inorganic Chemicals | Maximum Contaminant Level Violation | 1 | 1 |
| Stage 1 Disinfectants and Disinfection Byproducts Rule | Stage 1 Disinfectants and Disinfection Byproducts Rule | Treatment Technique Violation | 8 | 8 |
| Stage 2 Disinfectants and Disinfection Byproducts Rule | Stage 2 Disinfectants and Disinfection Byproducts Rule | Monitoring and Reporting | 1 | 1 |
| Surface Water Treatment Rule | Surface Water Treatment Rules | Treatment Technique Violation | 122 | 40 |

| Contaminant | Rule Family | Violation Category | No. of Violations | No. of Water Systems |
|---------------------------------|--|-------------------------------------|----------------------|----------------------------|
| Surface Water Treatment Rule | Surface Water Treatment Rules | Monitoring and Reporting | 1 | 1 |
| TTHM | Stage 2 Disinfectants and Disinfection Byproducts Rule | Maximum Contaminant Level Violation | 125 | 52 |
| TTHM | Stage 2 Disinfectants and Disinfection Byproducts Rule | Monitoring and Reporting | 13 | 13 |
| Total Haloacetic Acids (HAA5) | Stage 2 Disinfectants and Disinfection Byproducts Rule | Monitoring and Reporting | 9 | 9 |
| Total Haloacetic Acids (HAA5) | Stage 2 Disinfectants and Disinfection Byproducts Rule | Maximum Contaminant Level Violation | 57 | 24 |
| - | Groundwater Rule | Other Violation | 1 | 1 |
| - | Miscellaneous | Other Violation | 106 | 34 |

APPENDIX D: SUMMARY OF MCL VIOLATIONS FOR ARSENIC BY COUNTY (MCL = $5 \mu g/I$)

| County | PWS ID | PWS Name | Pop Served | No. of Violations |
|--------------|-----------|--|---------------|-------------------|
| Colusa | CA0600008 | COLUSA CO. WWD #1 - GRIMES | 500 | 3 |
| Contra Costa | CA0707602 | BEACON WEST | 45 | 1 |
| Contra Costa | CA0707615 | DOUBLETREE RANCH WATER SYSTEM | 49 | 2 |
| El Dorado | CA0900102 | GOLD BEACH PARK | 100 | 1 |
| Fresno | CA1000053 | LANARE COMMUNITY SERVICES DIST | 660 | 4 |
| Fresno | CA1000071 | LAKEVIEW IMPROVEMENT ASSOICATION #1 | 160 | 5 |
| Fresno | CA1000072 | SHAVER LAKE POINT #2 | 202 | 6 |
| Fresno | CA1000238 | CAMDEN TRAILER PARK | 75 | 2 |
| Fresno | CA1000369 | ZONNEVELD DAIRY - CEDAR | 70 | 4 |
| Fresno | CA1000584 | TRUE ORGANIC PRODUCTS | 40 | 6 |
| Fresno | CA1000602 | BAKER COMMODITIES INC. | 60 | 4 |
| Fresno | CA1009051 | CANTUA CREEK VINEYARDS, IV, LLC. | 50 | 4 |
| Fresno | CA1009091 | OLAM SPICES AND VEGETABLES, INC. | 125 | 3 |
| Fresno | CA1010039 | CARUTHERS COMM SERV DIST | 2497 | 4 |
| Inyo | CA1400036 | KEELER COMMUNITY SERVICE DISTRICT | 50 | 4 |
| Kern | CA1500378 | MAHER MUTUAL WATER COMPANY | 150 | 2 |
| Kern | CA1500405 | AERIAL ACRES WATER COMPANY, INC. | 172 | 4 |
| Kern | CA1500424 | LANDS OF PROMISE MUTUAL WATER ASSOCIATIO | 190 | 7 |
| Kern | CA1500436 | HUNGRY GULCH WATER SYSTEM | 33 | 5 |
| Kern | CA1500442 | SUNSET APARTMENTS WATER SYSTEM | 37 | 4 |
| Kern | CA1500449 | FOURTH STREET WATER SYSTEM | 56 | 4 |
| Kern | CA1500455 | WILLIAM FISHER MEMORIAL WATER COMPANY | 56 | 4 |
| Kern | CA1500458 | R.S. MUTUAL WATER COMPANY | 67 | 4 |
| Kern | CA1500461 | FOUNTAIN TRAILER PARK WATER | 68 | 4 |
| Kern | CA1500493 | EL ADOBE POA, INC. | 200 | 4 |
| Kern | CA1500521 | BOULDER CANYON WATER ASSOCIATION | 28 | 5 |
| Kern | CA1500525 | LAKEVIEW RANCHOS MUTUAL WATER COMPANY | 120 | 4 |
| Kern | CA1500571 | LUCKY 18 ON ROSAMOND, LLC | 73 | 3 |
| Kern | CA1500585 | OASIS PROPERTY OWNERS ASSOCIATION | 100 | 3 |
| Kern | CA1502154 | LAKESIDE SCHOOL | 800 | 2 |
| Kern | CA1502231 | ROSAMOND SCHOOL WATER SYSTEM | 900 | 2 |
| Kern | CA1502383 | NORD ROAD WATER ASSOCIATION | 32 | 3 |
| Kern | CA1502569 | FIRST MUTUAL WATER SYSTEM | 35 | 4 |
| Kern | CA1502724 | QUAIL VALLEY WATER DIST-EASTSIDE SYSTEM | 92 | 5 |
| Kern | CA1502744 | 60TH STREET ASSOC. WATER SYSTEM | 44 | 2 |

| County | PWS ID | PWS Name | Pop Served | No. of Violations |
|-------------|-----------|--|---------------|-------------------|
| Kern | CA1510001 | ARVIN COMMUNITY SERVICES DIST | 19000 | 3 |
| Kern | CA1510002 | BORON CSD | 2253 | 3 |
| Kern | CA1510016 | RAND COMMUNITIES WATER DISTRICT | 450 | 4 |
| Kern | CA1510024 | GREENFIELD COUNTY WD | 8500 | 4 |
| Kern | CA1510052 | NORTH EDWARDS WD | 600 | 3 |
| Kings | CA1600004 | FOUR SEASONS MOBILE HOME PARK | 350 | 2 |
| Kings | CA1600004 | FOUR SEASONS MOBILE HOME PARK | 350 | 17 |
| Kings | CA1600008 | CENTRAL UNION ELEMENTARY | 320 | 1 |
| Kings | CA1600050 | CENTRAL VALLEY MEAT CO INC | 280 | 4 |
| Kings | CA1600296 | OLAM SPICES AND VEGETABLES INC | 75 | 2 |
| Kings | CA1600601 | KWRA MRF | 53 | 4 |
| Kings | CA1610009 | KETTLEMAN CITY CSD | 1450 | 3 |
| Los Angeles | CA1900038 | LANCASTER PARK MOBILE HOME PARK | 53 | 4 |
| Los Angeles | CA1900100 | METTLER VALLEY MUTUAL | 135 | 4 |
| Los Angeles | CA1900520 | THE VILLAGE MOBILE HOME PARK | 70 | 4 |
| Los Angeles | CA1900785 | MITCHELL'S AVENUE E MOBILE HOME PARK | 28 | 4 |
| Los Angeles | CA1900961 | WINTERHAVEN MOBILE ESTATES | 45 | 2 |
| Los Angeles | CA1910246 | LAND PROJECT MUTUAL WATER CO. | 1500 | 4 |
| Madera | CA2000150 | LIBERTY HIGH SCHOOL | 1340 | 1 |
| Madera | CA2000150 | LIBERTY HIGH SCHOOL | 1340 | 1 |
| Madera | CA2000293 | MD#46 AHWAHNEE RESORTS | 300 | 2 |
| Madera | CA2000512 | EAST ACRES MUTUAL WATER COMPANY | 250 | 2 |
| Madera | CA2000527 | YOSEMITE FORKS EST MUTUAL | 110 | 5 |
| Madera | CA2000538 | CEDAR VALLEY MUTUAL WATER CO | 137 | 3 |
| Madera | CA2000550 | MD#06 LAKE SHORE PARK | 130 | 9 |
| Madera | CA2000551 | MD#07 MARINA VIEW HEIGHTS | 200 | 5 |
| Madera | CA2000552 | MD#24 TEAFORD MEADOW LAKES | 150 | 2 |
| Madera | CA2000561 | MD#08 NORTH FORK WATER SYSTEM | 264 | 1 |
| Madera | CA2000612 | NORTH FORK UNION SCHOOL | 350 | 3 |
| Madera | CA2000619 | COLD SPRING GRANITE CO RAYMOND | 43 | 3 |
| Madera | CA2000737 | MD#42 STILL MEADOW | 100 | 2 |
| Madera | CA2000737 | MD#42 STILL MEADOW | 100 | 1 |
| Madera | CA2000785 | VALLEY TEEN RANCH | 50 | 1 |
| Madera | CA2000866 | AGRILAND FARMING CO INC | 60 | 4 |
| Madera | CA2010007 | HILLVIEW WC-OAKHURST/SIERRA LAKES | 2740 | 6 |
| Madera | CA2010012 | HILLVIEW WATER CO-RAYMOND | 294 | 4 |
| Madera | CA2010801 | VALLEY STATE PRISON | 3300 | 2 |
| Mariposa | CA2210937 | MARIPOSA COUNTY PUBLIC WORKS DEPARTMENT | 135 | 4 |
| Merced | CA2400165 | FOSTER FARMS DELHI FEEDMILL COLLIER ROAD | 200 | 4 |
| Merced | CA2400170 | HILMAR CHEESE COMPANY | 1000 | 6 |

| County | PWS ID | PWS Name | Pop Served | No. of Violations |
|----------------|-----------|-----------------------------------|---------------|-------------------|
| Merced | CA2410004 | CITY OF LIVINGSTON | 14894 | 3 |
| Mono | CA2600622 | SIERRA EAST MOBILE HOME COMMUNITY | 50 | 5 |
| Mono | CA2610003 | BRIDGEPORT PUD | 850 | 2 |
| Monterey | CA2700536 | CORRAL DE TIERRA ESTATES WC | 45 | 4 |
| Monterey | CA2700612 | LAGUNA SECA WC | 162 | 8 |
| Monterey | CA2700799 | VISTA DEL TORO WS | 87 | 6 |
| Monterey | CA2701221 | WASHINGTON SCHOOL WS | 250 | 6 |
| Monterey | CA2701926 | MORO RD WS #09 | 210 | 5 |
| Monterey | CA2701959 | TIERRA VISTA MWC | 57 | 7 |
| Monterey | CA2702009 | LAGUNA SECA RECREATION WS | 500 | 3 |
| Monterey | CA2702030 | CYPRESS COMMUNITY CHURCH WS | 200 | 7 |
| Monterey | CA2702550 | GRANGE HALL WS | 25 | 7 |
| Plumas | CA3210011 | PLUMAS EUREKA CSD | 325 | 3 |
| Riverside | CA3301380 | SAINT ANTHONY TRAILER PARK | 300 | 4 |
| Riverside | CA3301482 | ORTEGA OAKS RV PARK&CAMPGROUND | 25 | 3 |
| Riverside | CA3303092 | MECCA ARCO TRAVEL CENTER | 47 | 4 |
| Riverside | CA3303112 | COACHELLA VALLEY FACILITY | 245 | 4 |
| Sacramento | CA3400130 | THE COURTLAND GROUP | 40 | 4 |
| Sacramento | CA3400138 | LOCKE WATER WORKS CO [SWS] | 80 | 8 |
| Sacramento | CA3400149 | RANCHO MARINA | 250 | 4 |
| Sacramento | CA3400164 | VIEIRA'S RESORT, INC | 150 | 10 |
| Sacramento | CA3400271 | ARCOHE ELEM SCHOOL - MAIN CAMPUS | 465 | 2 |
| Sacramento | CA3400332 | OXBOW MARINA (SWS) | 200 | 8 |
| Sacramento | CA3400364 | JEAN HARVIE SCHOOL [SWS] | 30 | 48 |
| Sacramento | CA3400433 | EDGEWATER MOBILE HOME PARK | 40 | 2 |
| Sacramento | CA3400433 | EDGEWATER MOBILE HOME PARK | 40 | 6 |
| San Benito | CA3500570 | B&R FARMS | 25 | 6 |
| San Benito | CA3500810 | WHISPERING PINES INN | 38 | 2 |
| San Bernardino | CA3600025 | BAR-LEN MWC | 124 | 3 |
| San Bernardino | CA3600036 | CALICO GHOST TOWN | 1000 | 3 |
| San Bernardino | CA3600062 | CALLIER WATER SYSTEM | 1000 | 3 |
| San Bernardino | CA3600196 | CSA 70 W-4 PIONEERTOWN | 625 | 3 |
| San Bernardino | CA3600504 | KNOLL ENTERPRISES | 500 | 1 |
| San Bernardino | CA3601013 | DARR WATER CO | 1000 | 2 |
| San Bernardino | CA3601015 | IRONWOOD CAMP | 1000 | 3 |
| San Bernardino | CA3610705 | US ARMY - FORT IRWIN | 16000 | 4 |
| San Diego | CA3701010 | WARNER UNIFIED SCHOOL DISTRICT | 250 | 4 |
| San Joaquin | CA3900579 | CENTURY MOBILE HOME PARK | 50 | 1 |
| San Joaquin | CA3900579 | CENTURY MOBILE HOME PARK | 50 | 3 |
| San Joaquin | CA3901169 | MUSD-NILE GARDEN SCHOOL | 804 | 4 |
| San Joaquin | CA3901213 | AVALOS, SILVIA | 30 | 4 |

| County | PWS ID | PWS Name | Pop Served | No. of Violations |
|-------------|-----------|---|---------------|-------------------|
| San Joaquin | CA3901290 | FISHER NURSERY | 50 | 1 |
| San Joaquin | CA3901334 | BJJ COMPANY LLC | 40 | 4 |
| San Joaquin | CA3901392 | ENVIROPLEX, INC | 25 | 3 |
| Santa Cruz | CA4400621 | RIVER GROVE MUTUAL WATER ASSN | 54 | 1 |
| Sierra | CA4600019 | SIERRA CO. W.W.D #1 CALPINE | 225 | 11 |
| Solano | CA4800561 | SNUG HARBOR RESORT | 337 | 3 |
| Sonoma | CA4901267 | TLC CHILD & FAMILY SERVICES | 35 | 3 |
| Stanislaus | CA5000033 | COBLES CORNER | 50 | 2 |
| Stanislaus | CA5000051 | MOBILE PLAZA PARK | 125 | 4 |
| Stanislaus | CA5000077 | CERES WEST MHP | 161 | 4 |
| Stanislaus | CA5000080 | COUNTRY WESTERN MOBILE HOME PARK | 90 | 4 |
| Stanislaus | CA5000085 | GREEN RUN MOBILE ESTATES | 100 | 4 |
| Stanislaus | CA5000086 | COUNTRYSIDE MHP | 60 | 4 |
| Stanislaus | CA5000218 | COUNTRY VILLA APTS | 30 | 4 |
| Stanislaus | CA5000273 | GRATTON SCHOOL | 110 | 4 |
| Stanislaus | CA5000389 | MONTEREY PARK TRACT CSD | 186 | 3 |
| Stanislaus | CA5000484 | UNITED PALLET SERVICES INC WATER SYSTEM | 45 | 4 |
| Stanislaus | CA5000570 | VALLEY PETERBILT | 25 | 2 |
| Stanislaus | CA5010008 | HUGHSON, CITY OF | 6082 | 4 |
| Stanislaus | CA5010009 | KEYES COMMUNITY SERVICES DIST. | 4891 | 4 |
| Sutter | CA5100107 | SUTTER CO. WWD#1 (ROBBINS) | 350 | 4 |
| Sutter | CA5100145 | WINSHIP ELEMENTARY SCHOOL | 38 | 4 |
| Sutter | CA5100149 | BARRY ELEMENTARY SCHOOL | 650 | 4 |
| Tehama | CA5200550 | NEW ORCHARD MOBILE HOME PARK LLC | 125 | 3 |
| Tehama | CA5201137 | MILLSTREAM MOBILE HOME PARK | 80 | 3 |
| Tehama | CA5210003 | LOS MOLINOS COMM. SERVICES DIST. | 1500 | 4 |
| Trinity | CA5301002 | LEWISTON COMMUNITY SERVICES DISTRICT | 250 | 4 |
| Tulare | CA5403054 | PFFJ, LLC | 32 | 4 |
| Tulare | CA5410009 | PIXLEY PUBLIC UTIL DIST | 3310 | 3 |
| Tulare | CA5410050 | ALPAUGH COMMUNITY SERVICES DISTRICT | 1026 | 2 |
| Yolo | CA5700652 | YOLO FLIERS CLUB | 410 | 2 |

APPENDIX E: SUMMARY OF MCL VIOLATIONS FOR NITRATE-NITRITE BY COUNTY

| County | PWS ID | PWS Name | Pop Served | No. of Violations |
|-------------|-----------|--|---------------|-------------------|
| Kern | CA1500409 | BROCK MUTUAL WATER COMPANY | 511 | 1 |
| Kern | CA1500494 | WILSON ROAD WATER COMMUNITY | 72 | 2 |
| Kern | CA1500575 | SAN JOAQUIN ESTATES MUTUAL WATER COMPANY | 165 | 2 |
| Kern | CA1500584 | GOOSELAKE WATER COMPANY | 105 | 1 |
| Kern | CA1500588 | SON SHINE PROPERTIES | 438 | 1 |
| Kern | CA1502017 | WHEELER FARMS HEADQUARTERS | 25 | 1 |
| Kern | CA1502229 | RIO BRAVO GREELEY SCHOOL WATER SYSTEM | 887 | 2 |
| Kern | CA1502273 | SUN WORLD INTERNATIONAL, INCCOM CENTER | 80 | 1 |
| Kern | CA1502398 | FARMER JOHN EGG RANCH #2 | 30 | 1 |
| Kern | CA1502699 | EAST WILSON ROAD WATER COMPANY | 35 | 1 |
| Monterey | CA2700665 | OAK HEIGHTS W & R CO INC | 105 | 2 |
| Monterey | CA2700738 | SAN MIGUEL WS #01 | 100 | 1 |
| Monterey | CA2700771 | SPRINGFIELD WATER COMPANY | 200 | 2 |
| Monterey | CA2701036 | APPLE AVE WS #03 | 60 | 1 |
| Monterey | CA2701063 | RIVER RD WS #25 | 65 | 1 |
| Monterey | CA2701153 | GROWERS TRANSPLANTING WS | 50 | 2 |
| Monterey | CA2701241 | ENCINAL RD WS #01 | 41 | 4 |
| Monterey | CA2701542 | GONZALES GAS STATION WS | 200 | 2 |
| Monterey | CA2701912 | SPRECKELS LN WS #03 | 50 | 1 |
| Monterey | CA2702409 | EL CAMINO WC INC | 90 | 4 |
| Monterey | CA2702616 | ALTMAN PLANTS WS #02 | 25 | 2 |
| Monterey | CA2702621 | IVERSON RD WS #03 | 40 | 3 |
| San Joaquin | CA3900649 | GLENWOOD MOBILE HOME PARK | 100 | 2 |
| San Joaquin | CA3901164 | JIMCO TRUCK PLAZA WATER SYSTEM | 150 | 1 |
| San Joaquin | CA3901182 | FINLEYS | 25 | 2 |
| San Joaquin | CA3901387 | STOCKTON BAPTIST CHURCH | 25 | 4 |
| San Joaquin | CA3901479 | PG&E: MANTECA SERVICE CENTER | 25 | 2 |
| Tehama | CA5200655 | LOUISIANA-PACIFIC CORPORATION | 55 | 1 |
| Tulare | CA5400616 | LEMON COVE WATER CO | 200 | 1 |
| Tulare | CA5400651 | BEVERLY GRAND MUTUAL WATER | 108 | 1 |
| Tulare | CA5400666 | DEL ORO GRANDVIEW GARDENS DISTRICT | 389 | 1 |
| Tulare | CA5400735 | RODRIGUEZ LABOR CAMP | 110 | 1 |
| Tulare | CA5400805 | SOULTS MUTUAL WATER CO | 120 | 1 |
| Tulare | CA5400964 | SIERRA VISTA ASSN | 44 | 1 |

| County | PWS ID | PWS Name | Pop Served | No. of Violations |
|--------|-----------|----------------|---------------|-------------------|
| Tulare | CA5401003 | EAST OROSI CSD | 700 | 2 |